

In the claims:

1-6. (Cancel)

7. (Original) A method for performing digital photolithography on a substrate, the substrate having a first portion with a first design resolution and a second portion with a second design resolution, the method comprising:

scanning the first portion of the substrate at a first speed, comprising moving the substrate relative to the head at a third speed in a first direction; and moving the head relative to the substrate at a fourth speed in the first direction while scanning the first portion of the substrate, wherein the first speed equals the sum of the third and fourth speeds; and

scanning the second portion of the substrate at a second speed different from the first speed, comprising moving the head relative to the substrate at a fifth speed in a second direction opposite to the first direction while scanning the second portion of the substrate, wherein the second speed equals the difference of the third and fifth speeds;

wherein both the first and second portions are scanned on a single pass.

8. (Original) The method of claim 7 wherein the fourth and fifth speeds are the same.

9-10. (Cancel)

11. (Original) Software for controlling the movement of a first motor for moving an image producing device during exposure of a substrate, wherein the substrate includes a plurality of circuit components arranged in rows and at least one horizontal component between consecutive rows of the circuit components, the software comprising instructions for:

moving the image producing device at a first speed and in a first direction while exposing the at least one horizontal component; and

moving the image producing device at a second speed and in a second direction opposite from the first direction while exposing the plurality of circuit components;

wherein the substrate constantly moves at a third speed in the first direction during the exposing, and the third speed is greater than the second speed.

12. (Original) The software of claim 11 wherein the first speed equals the second speed and the first direction is perpendicular to the rows.

13. (Original) The software of claim 11 wherein the first speed equals zero.

14. (Original) The software of claim 11 further comprising instructions for: providing digital data to the image producing device corresponding to the movement of the image producing device at the first and second speeds.

15. (Original) The software of claim 11 wherein the image producing device is a deformable mirror device (DMD).

16-18. (Cancel)